

# CHAPTER 3 ChemLAB

## Identify the Products of a Chemical Reaction

One of the most interesting characteristics of matter, and one that drives the study and exploration of chemistry, is the fact that matter changes. By examining a dramatic chemical reaction, such as the reaction of the element copper and the compound silver nitrate in a water solution, you can readily observe chemical change. Drawing on one of the fundamental laboratory techniques introduced in this chapter, you can separate the products. Then, you will use a flame test to confirm the identity of the products.

### Problem

Is there evidence of a chemical reaction between copper and silver nitrate? If so, which elements reacted and what is the name of the compound they formed?

### Objectives

- **Observe** the reactants as they change into product.
- **Separate** a mixture by filtration.
- **Predict** the names of the products.

### Materials

copper wire  
 AgNO<sub>3</sub> solution  
 sandpaper  
 stirring rod  
 50-mL graduated cylinder  
 50-mL beaker  
 funnel  
 filter paper

250-mL Erlenmeyer flask  
 ring stand  
 plastic petri dish  
 small iron ring  
 paper clip  
 Bunsen burner  
 tongs

### Safety Precautions



- Always wear safety goggles, gloves, and a lab apron.
- Silver nitrate is toxic and will harm skin and clothing.
- Use caution around a flame.

### Pre-Lab

1. Read the entire CHEMLAB.
2. Prepare all written materials that you will take into the laboratory. Be sure to include safety precautions and procedure notes. Use the data table on the next page.
3. Define the terms physical property and chemical property. Give an example of each.

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4. Form a hypothesis regarding what you might observe if
  - a. a chemical change occurs.

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- b. a physical change occurs.

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**Wenbin Ji**



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## **Table of Contents Chemistry Matter And Change Teacher Answers Chemlab**

1. Understanding the eBook Chemistry Matter And Change Teacher Answers Chemlab
  - The Rise of Digital Reading Chemistry Matter And Change Teacher Answers Chemlab
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Matter And Change Teacher Answers Chemlab
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemistry Matter And Change Teacher Answers Chemlab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Matter And Change Teacher Answers Chemlab

- Personalized Recommendations
  - Chemistry Matter And Change Teacher Answers Chemlab User Reviews and Ratings
  - Chemistry Matter And Change Teacher Answers Chemlab and Bestseller Lists
5. Accessing Chemistry Matter And Change Teacher Answers Chemlab Free and Paid eBooks
    - Chemistry Matter And Change Teacher Answers Chemlab Public Domain eBooks
    - Chemistry Matter And Change Teacher Answers Chemlab eBook Subscription Services
    - Chemistry Matter And Change Teacher Answers Chemlab Budget-Friendly Options
  6. Navigating Chemistry Matter And Change Teacher Answers Chemlab eBook Formats
    - ePub, PDF, MOBI, and More
    - Chemistry Matter And Change Teacher Answers Chemlab Compatibility with Devices
    - Chemistry Matter And Change Teacher Answers Chemlab Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Chemistry Matter And Change Teacher Answers Chemlab
    - Highlighting and Note-Taking Chemistry Matter And Change Teacher Answers Chemlab
    - Interactive Elements Chemistry Matter And Change Teacher Answers Chemlab
  8. Staying Engaged with Chemistry Matter And Change Teacher Answers Chemlab
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Chemistry Matter And Change Teacher Answers Chemlab
  9. Balancing eBooks and Physical Books Chemistry Matter And Change Teacher Answers Chemlab
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Chemistry Matter And Change Teacher Answers Chemlab
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Chemistry Matter And Change Teacher Answers Chemlab
    - Setting Reading Goals Chemistry Matter And Change Teacher Answers Chemlab
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Chemistry Matter And Change Teacher Answers Chemlab

- Fact-Checking eBook Content of Chemistry Matter And Change Teacher Answers Chemlab
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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